A 8610-3

REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703)827-5260

STATISTICAL

No. 104-89 August 16, 1989

U.S. FOREIGN TRADE -- MAY 1989

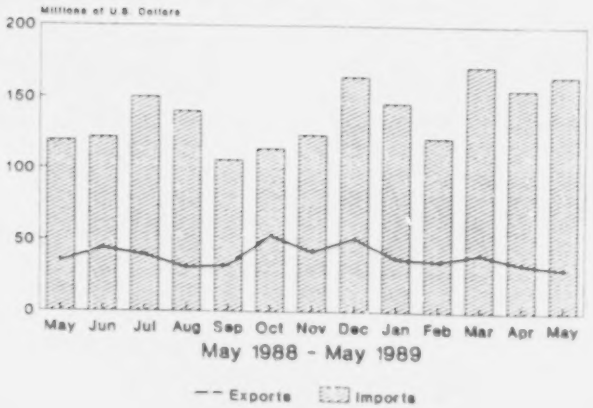
Exports fell and imports rose for both metal cutting and metal forming machine tools during May 1989, compared with April 1989. The year-to-date trade balance compared with last year is 24% higher for cutting machines, and 23% lower for forming machines.

U.S. MACHINE TOOL FOREIGN TRADE SUMMARY

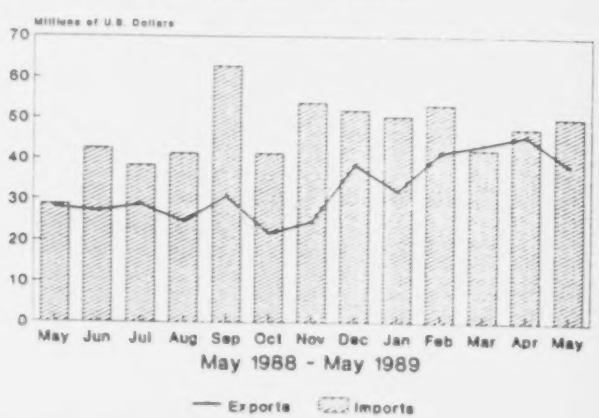
	May 1989	April 1989	% Change Apr.-May	Year to Date '89	Year to Date '88	% Change '88-'89
METAL CUTTING						
Imports	$165.5	$156.0	6.1%	$762.0	$624.0	22.1%
Exports	$ 30.6	$ 33.9	-9.7%	$178.1	$151.3	17.7%
Balance	-$134.9	-$122.1	10.5%	-$583.9	-$472.7	23.5%
METAL FORMING						
Imports	$ 50.3	$ 47.6	5.7%	$244.0	$183.4	33.0%
Exports	$ 38.5	$ 45.8	-15.9%	$201.3	$128.2	57.0%
Balance	-$ 11.8	-$ 1.8	556.0%	-$ 42.7	-$ 55.2	-22.6%
TOTAL						
Imports	$215.8	$203.6	6.0%	$1,005.9	$807.4	24.6%
Exports	$ 69.1	$ 79.7	-13.3%	$379.4	$279.4	35.8%
Balance	-$146.7	-$123.9	18.4%	-$626.5	-$528.0	18.7%

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



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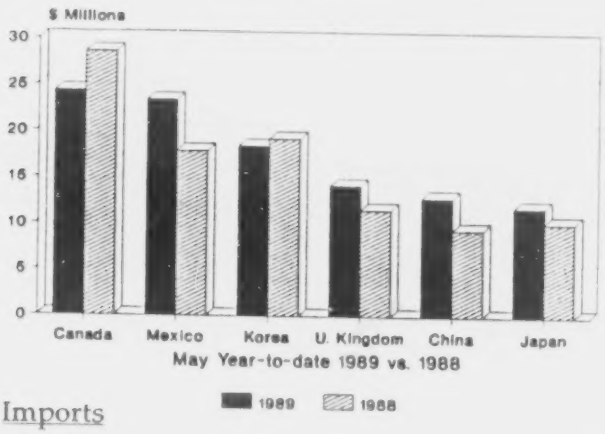
METAL CUTTING

Exports

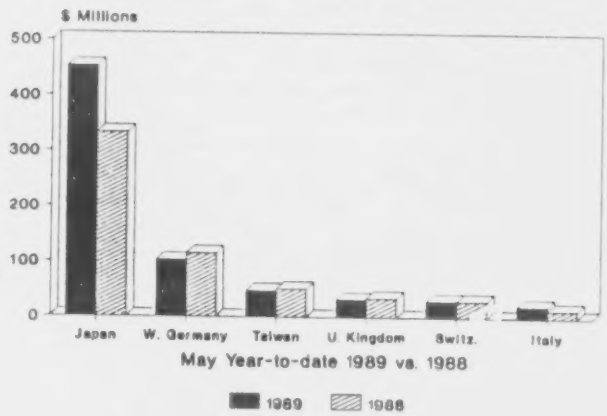
During May 1989 Canada was the largest U.S. export market for metal cutting machine tools at $6.2 million, up 39% from April 1989. Mexico and Korea followed at $4.7 million and $3.7 million, respectively. Total cutting tool exports were down 10% from April and down 11% from one year ago. The largest drops in exports were to the United Kingdom (down 78% from April 1989 and 52% from May 1988) and to Japan (down 42% from April and 45% from last year). Year-to-date total exports of metal cutting machine tools were up 18% from one year ago.

METAL CUTTING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

Imports of metal cutting machine tools were significantly higher in May 1989 compared with May 1988 for Japan (up 61% to $100.5 million), Switzerland (up 33% to $5.6 million), and Italy (up 260% to $5.5 million). Total imports for the month were 39% higher than May 1988, and 6% higher than April 1989. Japan and West Germany combined accounted for 75% of May 1989 imports. Big gainers from April 1989 were: Japan, up 13%; Taiwan, up 14%; and the United Kingdom, up 31%.

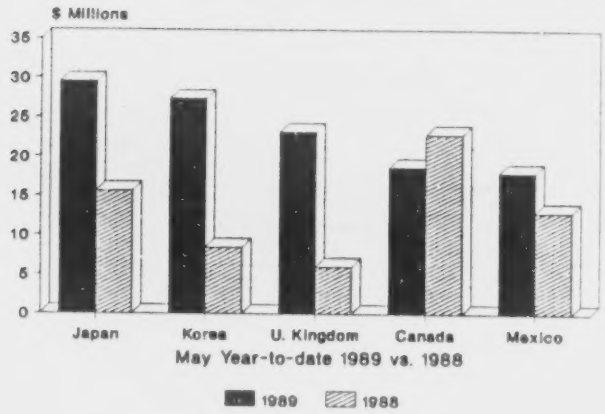
METAL FORMING

Exports

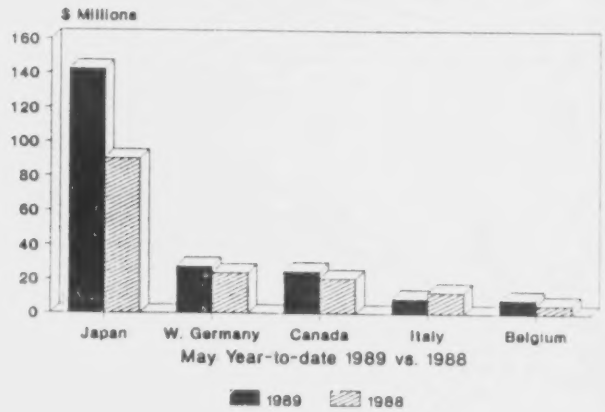
U.S. exports of metal forming machine tools in May 1989 were up 37% from May 1988 but down 16% compared with April 1989. Korea was the largest export market at $8.6 million, up 32% from April 1989 and up almost 300% from May 1988. The next three largest export markets were Japan, Mexico, and Canada, at $5.3 million, $3.9 million, and $3.4 million, respectively. Exports to Japan were down 35% from April but more than doubled versus May 1988. Year-to-date metal forming machine tool exports were up 89% to Japan, and more than tripled to the U.K. and Korea, but down 18% to Canada, compared with year-to-date 1988 figures.

METAL FORMING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

Imports of metal forming machine tools in May 1989 from Japan totalled $28.5 million, down 3% from April 1989 but still equal to almost 57% of total U.S. metal forming machine tool imports for the month. Imports from Canada were up 52% from April to $5.4 million; West German imports were $5.3 million, down 9% from April but up 92% from May 1988. Italy and Belgium were the fourth and fifth largest exporters to the United States, at $2.8 million and $2.6 million, respectively, in May 1989. Overall metal forming machine tool imports rose 6% from April and 75% compared with one year ago.

Other Manufacturing Technology

Exports

U.S. exports of machine tool parts and accessories totalled $62.2 million in May 1989, down 7% from April. Exports of numerical controls for machine tools were $3.4 million, down 19% from April. The top U.S. export markets for parts and accessories were Canada ($12.0 million, down 10% from April 1989), the United Kingdom ($6.9 million, down 33%), South Korea ($6.9 million, up 1%), Japan ($5.5 million, down 5%), and Mexico ($4.9 million, down 4%). U.S. exports of machine tool parts to West Germany were up 43% from April to $4.7 million. The "all other" category -- countries not considered major markets -- totalled $9.1 million.

U.S. exports of blow molding machines doubled from April, to $5.3 million, including $1.2 million to Canada, $1.4 million to France, and $1.5 million to the Soviet Union. Exports of machines and appliances for testing metals rose 4% from April to $6.3 million. Exports of laser, light, or photon beam for working any material rose to $5.6 million in May 1989, up 63% from April 1989 -- Japan was the leading market at $1.6 million. Of the $2.7 million of U.S. exports of injection molding machinery for rubber or other thermosetting materials, $1.6 million went to Mexico and $0.6 million went to the Soviet Union. Exports of extruders for processing thermoplastics fell 27% in May from April, to $3.1 million.

Imports

U.S. imports of machine tool parts and accessories reached $58.1 million in May 1989, down 7.7% from April. The largest source markets were Japan, West Germany, and Canada, with $17.2 million, $12.8 million, and $11.3 million, respectively. Imports of numerical controls, 99% of which came from Japan, rose 18% in May compared with April to $3.7 million.

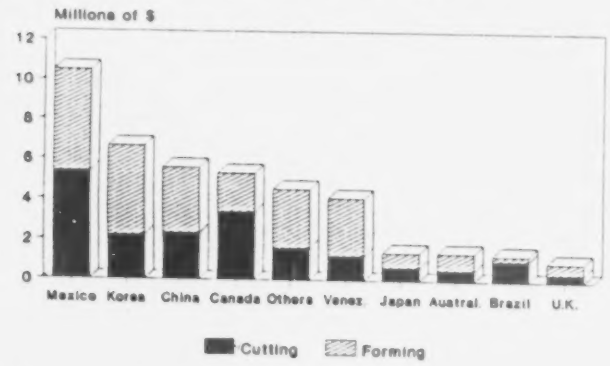
Imports of "other manufacturing technology," excluding parts and accessories and numerical controls, were $62.7 million in May, down 6% from April. Imports of injection molding machines for rubber or other thermosetting dropped 69% from April to $5.4 million. Imports of injection molding machinery for thermoplastics rose 19% during May to $26.2 million; Japan, Canada, and Italy supplied $16.0 million, $3.2 million, and $3.1 million, respectively. Imports of extruders for processing thermoplastics rose 28% from April to May, to $3.5 million. Of this total, Switzerland exported 17 machines for a total of $0.95 million, up from zero in April.

MONTHLY FOCUS

U.S. Exports of Used or Rebuilt Machine Tools

Total year-to-date May 1989 exports of used or rebuilt machine tools were $49.0 million, of which $26.3 million was metal forming and $22.7 million was metal cutting machine tools. Imports year-to-date were $6.2 million and $18.3 million, respectively. Mexico was the top export market for both used or rebuilt metal cutting and used or rebuilt metal forming machine tools. U.S. exports are well dispersed: exports to nine countries have exceeded $1 million so far this year. Also noteworthy are the exports to minor markets (the "all other" category in the data attached) that collectively received $4.5 million in used or rebuilt machine tools so far this year.

U.S. Exports of Used or Rebuilt Machines
Year-to-date May 1989



Note: "Others" in this chart refers to the category "all others" in the detailed data attached.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 89

RELEASED: August 18, 1989

Metal Forming Machine Tools

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	271	4233	40	426
8462100030	Headers and upsetters, including cold headers	28	5984	13	1660
8462100050	Forging or die stamping machines, and hammers, n.e.c.	266	10343	50	1506
8462210080	Bending, folding, straight. or flat. mach., incl presses, NC	165	11090	36	3510
8462290030	Press brakes, non-NC	17	824	8	324
8462290040	Bending rolls, non-NC	38	1241	8	255
8462290050	Bending, folding, straight., or flat., n.e.c., non-NC	260	9625	39	3331
8462310080	Shearing machines, NC	31	2753	5	254
8462390050	Shearing machines, non-NC	70	1801	11	338
8462410080	Punching or notching mach., incl. comb. punch & shear, NC	62	9884	12	1597
8462490050	Punching or notching mach., incl. comb. punch & sh., non-NC	316	10936	46	3648
8462910060	Hydraulic presses, NC	38	1505	6	419
8462910090	Hydraulic presses, non-NC	267	9587	113	2539
8462990030	Presses, n.e.c., NC	26	3487	2	339
8462990040	Presses, mechanical, non-NC	83	3354	5	93
8462990060	Presses, n.e.c., non-NC	241	11293	46	2352
8463100080	Draw benches for bars, tubes, profiles, wire or the like	140	3020	8	181
8463200080	Thread rolling machines	24	2322	6	141
8463300080	Machines for working wire	494	17603	78	2058
8463900080	Metal forming machine tools, n.e.c.	1221	52063	436	9415
9800000002	Used or rebuilt machine tools	1678	26281	243	3507
9900000002	Machine tools valued at less than $2,500	2762	2081	761	582
	Forming Total			1972	38474
	Y-T-D Forming Total	8498	201308		
	NC Y-T-D Forming Total	322	28718		
	Cutting and Forming Totals:				
	Monthly Total			6061	69098
	Y-T-D Total	31788	379382		
	NC Y-T-D Total*	881	90798		

Other Manufacturing Technology

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	281398	0	62206
2710003070	Quenching or cutting oils	0	4603	0	1081
8428900010	Industrial robots for lifting, handling, loading or unload	453	5067	37	88
8456100000	Laser, light or photon beam for working any material	1732	17920	93	5581
8456200000	Ultrasonic process for working any material	71	307	3	148
8477106010	Injection molding mach., for rubber or oth. thermosetting	122	11594	32	2670
8477106050	Injection molding mach., for thermoplastics	159	23332	27	3824
8477200010	Extruders for rubber or other thermosetting materials	96	4098	11	379
8477200050	Extruders for processing thermoplastics	423	15316	41	3085
8477300000	Blow molding machines	185	16445	49	5316
8477400000	Vacuum-molding and other thermoforming machines	683	6827	83	1618
8479899040	Industrial robots, n.e.c.	975	13406	176	2402
8479900040	Industrial robot parts	0	5418	0	1011
8537100030	Numerical controls for controlling machine tools	6517	15888	573	3360
9024100000	Machines and appliances for testing metals	0	35392	0	6322
9031100000	Machines for balancing mechanical parts	0	11809	0	2291
9031300000	Profile projectors	0	3709	0	301
9032810040	Industrial process control instr., hydraulic or pneumatic	256237	15943	46908	3246

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	17	0	0	0	0	0	0	17	210
8462100030	0	0	0	0	0	0	0	0	3	62
8462100050	1	11	0	0	0	0	0	0	9	124
8462210080	1	18	0	0	0	0	0	0	2	179
8462290030	0	0	0	0	0	0	0	0	1	3
8462290040	1	25	0	0	0	0	0	0	3	45
8462290050	2	25	0	0	0	0	0	0	9	373
8462310080	0	0	0	0	0	0	0	0	1	58
8462390050	0	0	0	0	0	0	0	0	4	85
8462410080	0	0	0	0	0	0	1	83	6	739
8462490050	0	0	0	0	0	0	0	0	5	126
8462910060	0	0	0	0	0	0	0	0	0	0
8462910090	0	0	0	0	2	21	0	0	10	277
8462990030	0	0	0	0	0	0	0	0	0	0
8462990040	0	0	0	0	0	0	0	0	1	10
8462990060	0	0	0	0	0	0	0	0	5	118
8463100080	0	0	0	0	0	0	0	0	0	0
8463200080	0	0	0	0	0	0	0	0	2	30
8463300080	1	6	0	0	0	0	0	0	8	182
8463900080	1	8	0	0	7	183	0	0	4	26
9800000002	1	24	0	0	0	0	0	0	47	483
9900000002	17	15	0	0	5	4	0	0	312	256
Month Tot	27	149	0	0	14	207	1	83	449	3386
Y-T-D Tot	204	4022	103	616	89	888	46	1837	1286	18632
NC YTD Tot	8	621	0	0	0	0	6	291	65	6729
C&F Month	102	938	1	16	18	610	36	861	2366	9614
C&F Y-T-D	478	7678	137	1071	194	4053	253	5251	12024	42924
C&F NC YTD	16	1151	0	0	22	2484	7	522	162	15002

Other Manufacturing Technology

1000000000	0	731	0	125	0	771	0	435	0	11987
2710003070	0	27	0	0	0	3	0	0	0	141
8428900010	0	0	0	0	0	0	0	0	22	66
8456100000	0	0	0	0	0	0	0	0	20	585
8456200000	0	0	0	0	0	0	0	0	1	84
8477106010	0	0	0	0	0	0	0	0	2	84
8477106050	0	0	0	0	0	0	1	165	13	850
8477200010	0	0	0	0	0	0	0	0	1	50
8477200050	4	896	0	0	0	0	0	0	13	248
8477300000	0	0	0	0	0	0	0	0	7	1173
8477400000	5	27	0	0	0	0	0	0	19	76
8479899040	0	0	1	3	0	0	0	0	20	911
8479900040	0	12	0	0	0	0	0	0	0	255
8537100030	8	43	0	0	0	0	0	0	55	236
9024100000	0	41	0	14	0	89	0	17	0	884
9031100000	0	0	0	0	0	0	0	0	0	608
9031300000	0	0	0	0	0	0	0	13	0	0
9032810040	1368	75	130	6	1224	65	0	0	1409	233

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	18	7	72	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
8462100050	0	0	0	0	0	0	0	0	0	0
8462210080	0	0	0	0	1	88	0	0	1	1120
8462290030	0	0	0	0	6	289	0	0	0	0
8462290040	0	0	0	0	0	0	0	0	0	0
8462290050	0	0	2	65	0	0	0	0	0	0
8462310080	0	0	0	0	0	0	0	0	0	0
8462390050	0	0	1	32	0	0	0	0	0	0
8462410080	0	0	0	0	0	0	0	0	0	0
8462490050	3	76	0	0	1	3	0	0	0	0
8462910060	1	7	0	0	0	0	0	0	0	0
8462910090	0	0	3	27	0	0	0	0	0	0
8462990030	0	0	0	0	0	0	0	0	0	0
8462990040	0	0	0	0	0	0	0	0	0	0
8462990060	0	0	2	459	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
8463200080	0	0	1	40	0	0	0	0	0	0
8463300080	0	0	3	52	0	0	0	0	0	0
8463900080	0	0	2	28	1	583	1	29	2	50
9800000002	3	696	3	43	0	0	0	0	3	107
9900000002	0	0	79	34	9	8	0	0	0	0
Month Tot	7	779	97	798	25	1043	1	29	6	1277
Y-T-D Tot	161	6730	254	3559	71	4737	6	107	89	4817
NC YTD Tot	18	437	2	61	3	190	0	0	2	2208
C&F Month	68	2575	245	1688	33	1192	3	934	68	1984
C&F Y-T-D	475	19587	692	10514	214	8562	81	2113	289	11534
C&F NC YTD	93	8689	36	4906	7	1529	1	596	7	3155

Other Manufacturing Technology

1000000000	0	657	0	1466	0	1039	0	4	0	1173
2710003070	0	8	0	13	0	0	0	5	0	17
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	0	0	0	0	0	0	0	0	0	0
8456200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	40	0	0	0	0	0	0
8477106050	0	0	0	0	0	0	0	0	0	0
8477200010	0	0	0	0	0	0	0	0	0	0
8477200050	0	0	0	0	0	0	0	0	0	0
8477300000	0	0	1	1424	0	0	0	0	0	0
8477400000	8	815	1	8	0	0	0	0	2	74
8479899040	0	0	5	419	0	0	0	0	0	0
8479900040	0	11	0	58	0	0	0	0	0	70
8537100030	7	258	48	249	0	0	0	0	16	87
9024100000	0	498	0	48	0	15	0	0	0	312
9031100000	0	0	0	0	0	0	0	4	0	16
9031300000	0	0	0	0	0	0	0	0	0	0
9032810040	18	23	2826	181	0	0	0	0	6630	511

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 89

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	8	79	0	0
8462100030	8	615	0	0	0	0	1	5	0	0
8462100050	26	634	1	30	0	0	4	58	0	0
8462210080	11	1394	4	131	0	0	4	155	0	0
8462290030	0	0	0	0	0	0	1	32	0	0
8462290040	0	0	0	0	0	0	3	132	0	0
8462290050	5	882	3	1047	0	0	7	291	1	10
8462310080	0	0	2	52	0	0	0	0	1	40
8462390050	0	0	0	0	0	0	3	144	0	0
8462410080	0	0	1	270	0	0	1	58	3	447
8462490050	1	16	9	2923	0	0	20	239	0	0
8462910060	0	0	0	0	0	0	3	138	1	84
8462910090	2	1167	7	81	0	0	81	535	0	0
8462990030	1	189	0	0	0	0	0	0	0	0
8462990040	0	0	0	0	1	51	0	0	0	0
8462990060	0	0	1	272	0	0	31	745	0	0
8463100080	2	48	0	0	0	0	1	14	0	0
8463200080	0	0	0	0	0	0	0	0	0	0
8463300080	2	31	0	0	0	0	1	4	0	0
8463900080	5	279	72	3646	0	0	12	157	1	4
9800000002	1	30	4	124	1	95	140	1081	0	0
9900000002	11	7	5	2	0	0	34	40	0	0
Month Tot	75	5292	109	8577	2	146	355	3906	7	584
Y-T-D Tot	455	29475	555	27306	10	422	1460	17972	60	1408
NC YTD Tot	72	5809	12	1464	1	105	26	1400	10	1032
C&F Month	417	6544	311	12251	9	422	776	8619	13	688
C&F Y-T-D	2229	41293	1025	45690	64	321	4751	41307	372	4396
C&F NC YTD	101	8500	43	7530	3	174	86	6842	27	2909

Other Manufacturing Technology

1000000000	0	5512	0	6861	0	244	0	4893	0	501
2710003070	0	31	0	26	0	2	0	50	0	0
8428900010	0	0	0	0	0	0	14	5	0	0
8456100000	24	1633	0	0	0	0	2	47	0	0
8456200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	235	0	0	21	1635	0	0
8477106050	0	0	2	1291	0	0	5	1173	0	0
8477200010	0	0	0	0	0	0	9	308	0	0
8477200050	6	61	0	0	0	0	4	288	0	0
8477300000	0	0	0	0	0	0	35	877	0	0
8477400000	10	51	1	6	0	0	2	53	0	0
8479899040	3	13	2	10	0	0	2	14	0	0
8479900040	0	198	0	0	0	0	0	37	0	0
8537100030	3	15	24	139	0	0	6	25	19	105
9024100000	0	1096	0	149	0	0	0	133	0	54
9031100000	0	2	0	159	0	0	0	159	0	0
9031300000	0	232	0	14	0	0	0	0	0	0
9032810040	3925	258	336	64	0	0	4199	79	3747	211

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 89

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
8462100050	0	0	0	0	0	0	0	0	0	0
8462210080	0	0	0	0	2	61	0	0	0	0
8462290030	0	0	0	0	0	0	0	0	0	0
8462290040	0	0	0	0	0	0	0	0	0	0
8462290050	1	50	0	0	1	14	0	0	1	5
8462310080	0	0	0	0	0	0	0	0	0	0
8462390050	0	0	0	0	0	0	0	0	0	0
8462410080	0	0	0	0	0	0	0	0	0	0
8462490050	0	0	0	0	0	0	1	3	1	19
8462910060	0	0	0	0	0	0	0	0	1	191
8462910090	0	0	0	0	0	0	1	215	0	0
8462990030	0	0	0	0	0	0	0	0	0	0
8462990040	0	0	0	0	0	0	0	0	0	0
8462990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
8463200080	0	0	0	0	0	0	0	0	0	0
8463300080	0	0	4	88	0	0	0	0	8	201
8463900080	1	100	3	117	1	7	1	777	7	168
9800000002	3	134	0	0	0	0	3	37	2	17
9900000002	4	9	0	0	0	0	0	0	0	0
Month Tot	9	293	7	205	4	82	6	1032	20	601
Y-T-D Tot	109	6087	77	2428	32	918	88	5565	46	1281
NC YTD Tot	14	2436	0	0	6	284	7	924	1	191
C&F Month	50	1215	8	211	46	368	157	1715	23	701
C&F Y-T-D	659	9298	267	3734	159	2873	479	9427	107	1970
C&F NC YTD	33	3405	1	677	17	1646	16	1740	6	369

Other Manufacturing Technology

1000000000	0	787	0	430	0	815	0	902	0	336
2710003070	0	33	0	7	0	0	0	351	0	8
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	0	0	2	41	0	0	3	311	0	0
8456200000	0	0	2	63	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
8477106050	0	0	0	0	0	0	0	0	0	0
8477200010	0	0	0	0	0	0	0	0	0	0
8477200050	0	0	0	0	0	0	0	0	0	0
8477300000	0	0	0	0	0	0	0	0	0	0
8477400000	0	0	0	0	0	0	0	0	0	0
8479899040	2	13	0	0	0	0	29	162	0	0
8479900040	0	18	0	0	0	0	0	6	0	0
8537100030	2	14	12	39	0	0	8	44	0	0
9024100000	0	110	0	404	0	51	0	189	0	4
9031100000	0	143	0	15	0	5	0	0	0	2
9031300000	0	0	0	0	0	0	0	3	0	0
9032810040	824	105	3378	175	244	15	2269	148	1258	63

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	23	0	0	0	0	2	2	1	5
8462100030	0	0	0	0	0	0	0	0	1	979
8462100050	1	21	0	0	1	15	0	0	7	613
8462210080	9	345	0	0	0	0	0	0	1	19
8462290030	0	0	0	0	0	0	0	0	0	0
8462290040	0	0	0	0	0	0	0	0	1	54
8462290050	5	548	0	0	0	0	1	16	1	5
8462310080	0	0	0	0	0	0	0	0	1	104
8462390050	1	14	0	0	0	0	0	0	2	63
8462410080	0	0	0	0	0	0	0	0	0	0
8462490050	1	23	0	0	0	0	1	14	3	206
8462910060	0	0	0	0	0	0	0	0	0	0
8462910090	0	0	0	0	2	18	1	7	4	192
8462990030	1	150	0	0	0	0	0	0	0	0
8462990040	0	0	0	0	0	0	0	0	3	32
8462990060	1	179	0	0	2	26	3	545	1	8
8463100080	2	27	0	0	0	0	1	11	2	81
8463200080	0	0	0	0	0	0	0	0	3	70
8463300080	20	503	0	0	2	93	9	777	20	121
8463900080	15	330	0	0	0	0	3	23	297	2902
9800000002	3	145	0	0	3	55	5	67	21	370
9900000002	43	23	0	0	16	13	139	119	87	52
Month Tot	104	2331	0	0	26	221	165	1579	456	5875
Y-T-D Tot	644	23139	2	108	125	4499	408	10280	2118	24476
NC YTD Tot	36	1959	2	108	2	55	3	276	26	2140
C&F Month	204	3339	1	20	33	676	336	2749	737	9166
C&F Y-T-D	1652	37272	5	798	335	8894	1225	18449	3622	39872
C&F NC YTD	92	8869	2	108	5	257	17	2795	81	6946

Other Manufacturing Technology

1000000000	0	6890	0	8	0	1838	0	4707	0	9096
2710003070	0	6	0	0	0	91	0	18	0	244
8428900010	0	0	0	0	0	0	1	17	0	0
8456100000	1	423	0	0	0	0	1	648	40	1893
8456200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	4	565	1	40	0	0	2	72
8477106050	3	202	0	0	2	107	0	0	1	36
8477200010	0	0	0	0	0	0	1	21	0	0
8477200050	4	39	0	0	1	693	2	96	7	765
8477300000	0	0	4	1531	0	0	0	0	2	312
8477400000	24	427	0	0	0	0	0	0	11	82
8479899040	12	70	0	0	0	0	100	788	0	0
8479900040	0	236	0	0	0	0	0	61	0	51
8537100030	193	1429	0	0	0	0	125	360	47	320
9024100000	0	823	0	80	0	0	0	847	0	465
9031100000	0	809	0	0	0	0	0	34	0	337
9031300000	0	0	0	0	0	0	0	39	0	0
9032810040	3734	379	0	0	78	28	2047	158	7264	467

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	0	0	24	34	24	34
East Germany	0	0	0	0	0	0
Finland	0	0	2	56	2	56
Greece	2	11	1	94	3	105
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	3	58	2	650	5	708
Luxembourg	0	0	0	0	0	0
Norway	0	0	29	25	29	25
Poland	2	183	0	0	2	183
Portugal	3	2	0	0	3	2
Romania	0	0	0	0	0	0
Sweden	42	664	4	1492	46	2156
Turkey	10	450	2	127	12	577
Yugoslavia	0	0	4	68	4	68
Oth Europe	0	0	0	0	0	0
TOTAL	598	5979	472	9608	1070	15588
NORTH AND CENTRAL AMERICA						
Bahamas	6	4	2	7	8	10
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	2	50	0	0	2	50
Costa Rica	0	0	1	21	1	21
Dominican Rep	2	127	0	0	2	127
El Salvador	3	253	0	0	3	253
Guatemala	0	0	1	732	1	732
Haiti	0	0	6	2	6	2
Honduras	0	0	0	0	0	0
Jamaica	3	5	8	88	11	93
Panama	0	0	0	0	0	0
Trinidad	0	0	0	0	0	0
Oth N & C Am.	1	2	3	45	4	47
TOTAL	2355	11382	825	8187	3180	19569
SOUTH AMERICA						
Argentina	8	734	2	23	10	757
Bolivia	0	0	0	0	0	0
Chile	3	8	289	1278	292	1286
Colombia	30	80	17	288	47	369
Ecuador	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	6	31	6	31
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	83	2057	341	1924	424	3980
OCEANIA						
New Zealand	1	6	0	0	1	6
Oth Oceania	0	0	0	0	0	0
TOTAL	76	796	27	149	103	944

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	114	324	34	373	148	697
Iran	0	0	0	0	0	0
Iraq	0	0	3	180	3	180
Israel	2	47	6	70	8	117
Jordan	2	12	0	0	2	12
Kuwait	1	8	0	0	1	8
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	24	38	0	0	24	38
Qatar	0	0	0	0	0	0
Saudi Arabia	4	105	1	10	5	115
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	964	10291	298	18424	1262	28716
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	1	21	0	0	1	21
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	2	15	0	0	2	15
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	10	83	6	2	16	85
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	3	180	3	180
TOTAL	13	119	9	182	22	301

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include codes 8456300000 and 9000000001.

U.S. EXPORTS

Metal Cutting Machine Tools - May 89

RELEASED: August 18, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	305	2640	4	197
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	11	1610	1	153
8457100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	3	646	0	0
8457100035	Horiz. mach. ctrs., ATC	22	9125	3	948
8457100045	Mach. ctrs., n.e.c.	77	5903	24	2240
8457200010	Unit construction mach. (single station transfer), NC	3	2683	0	0
8457200090	Unit construction mach. (single station transfer), non-NC	3	884	1	210
8457300010	Multi-station transfer machines, NC	1	167	0	0
8457300090	Multi-station transfer machines, non-NC	13	2913	3	423
8458110010	Horiz. lathes, multiple spindle, NC	0	0	0	0
8458110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	82	6801	7	536
8458110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	14	2250	5	570
8458110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	4	385	1	99
8458190030	Horiz. engine or toolroom lathes, non-NC	44	901	6	128
8458190050	Automatic bar and/or chucking mach., single spindle, non-NC	13	51	0	0
8458190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	18	1782	5	425
8458190090	Horiz. lathes, n.e.c., non-NC	87	1097	18	163
8458911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
8458911080	Vertical turret lathes, n.e.c., NC	2	139	1	80
8458915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
8458915070	Vertical lathes, excl. VTL's, n.e.c., NC	3	420	0	0
8458991050	Vertical turret lathes, non-NC	9	205	0	0
8458995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	40	2184	8	657
8459100000	Way-type unit head machines	10	2600	3	544
8459210080	Other drilling machines, NC	26	2136	7	860
8459290040	Drilling machines, multiple spindle, non-NC	12	697	8	273
8459290050	Drilling machines, radial, non-NC	17	557	4	46
8459290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	19	535	4	208
8459290090	Drilling machines, n.e.c., non-NC	42	2778	16	1100
8459310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1692	0	0
8459310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	366	0	0
8459310070	Boring-milling mach., n.e.c., NC	16	1365	3	302
8459390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	30	0	0
8459390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	95	1506	2	914
8459400040	Boring machines, vertical, NC	2	1182	1	496
8459400050	Boring machines, vertical, non-NC	10	156	1	11
8459400070	Boring machines, n.e.c., NC	1	1350	0	0
8459400080	Boring machines, n.e.c., non-NC	15	1521	3	89
8459510080	Milling machines, knee type, NC	11	911	4	162
8459590030	Milling machines, knee type, non-NC	10	285	4	85
8459610080	Milling machines, excl. knee type, n.e.c., NC	15	2740	0	0
8459690050	Milling machines, profile, dup., or die sinking, non-NC	16	752	1	59
8459690070	Milling machines, bed type, non-NC	27	5353	1	1720
8459690090	Milling machines, n.e.c., non-NC	187	4338	25	350
8459700020	Threading or tapping machines, n.e.c., NC	4	128	2	45
8459700080	Threading or tapping machines, n.e.c., non-NC	122	4013	34	655
8460110080	Flat surface grinding mach., NC	63	4964	9	281
8460190010	Flat surface grinding mach., recip.-table type, non-NC	33	541	12	190
8460190050	Flat surface grinding mach., n.e.c., non-NC	67	3729	7	318
8460210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	127	9115	23	797
8460290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	18	1619	3	831
8460290030	Grinding mach., internal cylindrical, non-NC	29	1156	6	191
8460290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	216	6684	26	768
8460310080	Sharpening machines (tool & cutter grinding), NC	16	512	9	331
8460390050	Sharpening machines (tool & cutter grinding), non-NC	444	4232	50	500
8460400060	Honing or lapping machines, NC	0	0	0	0
8460400080	Honing or lapping machines, non-NC	313	3484	45	478
8460900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	23	2592	0	0
8460900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	223	4558	37	927
8461100060	Planing machines, NC	1	25	0	0
8461100080	Planing machines, non-NC	84	2425	23	674
8461200010	Shaping or slotting machines, NC	0	0	0	0
8461200090	Shaping or slotting machines, non-NC	14	391	5	249
8461300060	Broaching machines, NC	1	248	0	0
8461300080	Broaching machines, non-NC	9	870	3	38
8461401050	Gear hobbers	25	3831	1	342
8461401070	Gear shapers	11	343	2	44
8461401090	Gear cutting machines, n.e.c.	27	5161	4	689
8461405060	Gear grinding or finishing machines	26	2789	10	505
8461500050	Sawing or cutting-off machines, NC	12	818	5	61
8461500090	Sawing or cutting-off machines, non-NC	406	5412	76	841
9000000001	Metal cutting machine tools, n.e.c.	102	3083	15	591
9800000001	Used or rebuilt machine tools	3017	22727	469	5281
9900000001	Machine tools valued at less than $2,500	16566	6990	3039	948
	Cutting Total			4089	30624
	Y-T-D Cutting Total	23290	178074		
	NC Y-T-D Cutting Total*	559	62080		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	126
8457100015	0	0	0	0	0	0	0	0	1	153
8457100025	0	0	0	0	0	0	0	0	0	0
8457100035	0	0	0	0	0	0	0	0	1	197
8457100045	0	0	0	0	3	323	0	0	4	726
8457200010	0	0	0	0	0	0	0	0	0	0
8457200090	0	0	0	0	0	0	0	0	1	210
8457300010	0	0	0	0	0	0	0	0	0	0
8457300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
8458110030	2	121	0	0	1	79	0	0	3	249
8458110050	1	67	0	0	0	0	0	0	3	371
8458110090	0	0	0	0	0	0	0	0	1	99
8458190030	0	0	0	0	0	0	0	0	2	36
8458190050	0	0	0	0	0	0	0	0	0	0
8458190070	0	0	0	0	0	0	0	0	4	364
8458190090	2	8	0	0	0	0	0	0	1	5
8458911060	0	0	0	0	0	0	0	0	0	0
8458911080	0	0	0	0	0	0	0	0	0	0
8458915050	0	0	0	0	0	0	0	0	0	0
8458915070	0	0	0	0	0	0	0	0	0	0
8458991050	0	0	0	0	0	0	0	0	0	0
8458995090	0	0	0	0	0	0	0	0	4	363
8459100000	0	0	0	0	0	0	0	0	0	0
8459210080	0	0	0	0	0	0	0	0	0	0
8459290040	0	0	0	0	0	0	0	0	6	241
8459290050	0	0	0	0	0	0	0	0	0	0
8459290070	0	0	0	0	0	0	0	0	0	0
8459290090	0	0	0	0	0	0	0	0	8	720
8459310010	0	0	0	0	0	0	0	0	0	0
8459310040	0	0	0	0	0	0	0	0	0	0
8459310070	0	0	0	0	0	0	0	0	1	36
8459390040	0	0	0	0	0	0	0	0	0	0
8459390050	0	0	0	0	0	0	0	0	0	0
8459400040	0	0	0	0	0	0	0	0	0	0
8459400050	0	0	0	0	0	0	0	0	0	0
8459400070	0	0	0	0	0	0	0	0	0	0
8459400080	0	0	0	0	0	0	0	0	1	57
8459510080	0	0	0	0	0	0	0	0	1	25
8459590030	0	0	0	0	0	0	0	0	0	0
8459610080	0	0	0	0	0	0	0	0	0	0
8459690050	0	0	0	0	0	0	0	0	0	0
8459690070	0	0	0	0	0	0	0	0	1	88
8459690090	0	0	0	0	0	0	0	0	2	45
8459700020	0	0	0	0	0	0	0	0	15	57
8459700080	1	72	0	0	0	0	0	0	1	20
8460110080	0	0	0	0	0	0	0	0	9	81
8460190010	0	0	0	0	0	0	0	0	3	43
8460190050	0	0	0	0	0	0	1	22	3	107
8460210080	0	0	0	0	0	0	0	0	1	52
8460290010	0	0	0	0	0	0	0	0	0	0
8460290030	0	0	0	0	0	0	0	0	5	51
8460290050	3	222	0	0	0	0	0	0	0	0
8460310080	0	0	0	0	0	0	0	0	20	158
8460390050	0	0	0	0	0	0	1	86	0	0
8460400060	0	0	0	0	0	0	0	0	7	80
8460400080	7	67	1	16	0	0	0	0	0	0
8460900060	0	0	0	0	0	0	0	0	6	30
8460900080	0	0	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
8461100080	0	0	0	0	0	0	0	0	0	0
8461200010	0	0	0	0	0	0	0	0	0	0
8461200090	0	0	0	0	0	0	0	0	2	207
8461300050	0	0	0	0	0	0	0	0	0	0
8461300080	0	0	0	0	0	0	0	0	1	8
8461401050	0	0	0	0	0	0	0	0	0	0
8461401070	0	0	0	0	0	0	0	0	0	0
8461401090	0	0	0	0	0	0	0	0	0	0
8461405060	0	0	0	0	0	0	0	0	1	42
8461500050	2	21	0	0	0	0	0	0	5	61
8461500090	0	0	0	0	0	0	0	0	23	255
9000000001	2	165	0	0	0	0	0	0	4	89
9800000001	55	47	0	0	0	0	1	648	32	568
9900000001							32	23	1731	209
Month Tot	75	789	1	16	4	402	35	779	1917	6228
Y-T-D Tot	274	3656	34	455	105	3165	207	3414	10738	24293
NC YTD Tot*	8	530	0	0	22	2484	1	231	97	8273

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
8457100025	0	0	0	0	0	0	0	0	0	0
8457100035	1	615	0	0	0	0	0	0	0	0
8457100045	0	0	0	0	0	0	0	0	0	0
8457200010	0	0	0	0	0	0	0	0	0	0
8457200090	0	0	0	0	0	0	0	0	0	0
8457300010	0	0	0	0	0	0	0	0	0	0
8457300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
8458110030	0	0	0	0	0	0	0	0	0	0
8458110050	0	0	0	0	0	0	0	0	0	0
8458110090	0	0	0	0	0	0	0	0	0	0
8458190030	0	0	0	0	0	0	0	0	0	0
8458190050	0	0	0	0	0	0	0	0	0	0
8458190070	0	0	0	0	0	0	0	0	0	0
8458190090	0	0	0	0	0	0	0	0	0	0
8458911060	0	0	0	0	0	0	0	0	0	0
8458911080	0	0	0	0	0	0	0	0	0	0
8458915050	0	0	0	0	0	0	0	0	0	0
8458915070	0	0	0	0	0	0	0	0	0	0
8458991050	0	0	0	0	0	0	0	0	0	0
8458995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
8459210080	0	0	0	0	0	0	0	0	0	0
8459290040	0	0	0	0	0	0	0	0	0	0
8459290050	0	0	0	0	0	0	0	0	0	0
8459290070	0	0	0	0	0	0	0	0	0	0
8459290090	0	0	0	0	0	0	0	0	0	0
8459310010	0	0	0	0	0	0	0	0	0	0
8459310040	0	0	0	0	0	0	0	0	0	0
8459310070	0	0	0	0	0	0	0	0	0	0
8459390040	0	0	0	0	0	0	0	0	0	0
8459390050	0	0	0	0	0	0	0	0	0	0
8459400040	0	0	0	0	0	0	1	903	0	0
8459400050	0	0	0	0	0	0	0	0	0	0
8459400070	0	0	0	0	0	0	0	0	0	0
8459400080	0	0	0	0	0	0	0	0	0	0
8459510080	0	0	0	0	0	0	0	0	0	0
8459590030	0	0	0	0	0	0	0	0	0	0
8459610080	0	0	0	0	0	0	0	0	0	0
8459690050	0	0	0	0	0	0	0	0	0	0
8459690070	0	0	0	0	0	0	0	0	0	0
8459690090	0	0	0	0	0	0	0	0	0	0
8459700020	0	0	0	0	0	0	0	0	0	0
8459700080	0	0	3	367	0	0	0	0	0	0
8460110080	0	0	0	0	1	30	0	0	0	0
8460190010	0	0	0	0	0	0	0	0	0	0
8460190050	0	0	0	0	0	0	0	0	0	0
8460210080	7	254	0	0	0	0	0	0	0	0
8460290010	1	125	0	0	0	0	0	0	0	0
8460290030	0	0	0	0	0	0	0	0	0	0
8460290050	0	0	0	0	0	0	0	0	0	0
8460310080	0	0	0	0	0	0	0	0	4	23
8460390050	0	0	0	0	0	0	0	0	0	0
8460400060	0	0	0	0	0	0	0	0	0	0
8460400080	5	71	0	0	1	16	0	0	0	0
8460900060	0	0	0	0	0	0	0	0	0	0
8460900080	1	22	7	31	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	1	17
8461100080	0	0	0	0	0	0	0	0	0	0
8461200010	0	0	0	0	0	0	0	0	1	17
8461200090	0	0	0	0	0	0	0	0	0	0
8461300060	0	0	0	0	0	0	0	0	0	0
8461300080	0	0	0	0	0	0	0	0	0	0
8461401050	0	0	1	342	0	0	0	0	1	20
8461401070	0	0	0	0	0	0	0	0	0	0
8461401090	0	0	0	0	1	100	0	0	1	477
8461405060	0	0	0	0	0	0	0	0	4	118
8461500050	0	0	0	0	0	0	0	0	0	0
8461500090	0	0	0	0	0	0	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	46	710	12	145	0	0	0	0	1	3
9900000001	0	0	125	6	5	3	1	2	49	31
Month Tot	61	1797	148	891	8	149	2	905	62	707
Y-T-D Tot	314	12857	438	6955	143	3825	75	2006	200	6718
NC YTD Tot*	75	8252	34	4844	4	1339	1	596	5	947

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	1	33	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
8457100025	0	0	0	0	0	0	0	0	0	0
8457100035	0	0	0	0	0	0	0	0	0	0
8457100045	0	0	3	402	0	0	12	689	0	0
8457200010	0	0	0	0	0	0	0	0	0	0
8457200090	0	0	0	0	0	0	0	0	0	0
8457300010	0	0	0	0	0	0	0	0	0	0
8457300090	0	0	0	0	0	0	1	90	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
8458110030	0	0	0	0	0	0	0	0	0	0
8458110050	0	0	0	0	0	0	1	133	0	0
8458110090	0	0	0	0	0	0	0	0	0	0
8458190030	0	0	0	0	0	0	0	0	0	0
8458190050	0	0	0	0	0	0	0	0	0	0
8458190070	0	0	0	0	0	0	0	0	0	0
8458190090	3	36	0	0	0	0	8	76	2	8
8458911060	0	0	0	0	0	0	0	0	0	0
8458911080	0	0	0	0	0	0	1	80	0	0
8458915050	0	0	0	0	0	0	0	0	0	0
8458915070	0	0	0	0	0	0	0	0	0	0
8458991050	0	0	0	0	0	0	0	0	0	0
8458995090	0	0	0	0	2	181	0	0	0	0
8459100000	0	0	0	0	0	0	3	544	0	0
8459210080	0	0	0	0	0	0	5	343	0	0
8459290040	0	0	0	0	0	0	0	0	0	0
8459290050	0	0	0	0	0	0	0	0	0	0
8459290070	0	0	0	0	0	0	0	0	0	0
8459290090	0	0	1	98	0	0	3	23	0	0
8459310010	0	0	0	0	0	0	0	0	0	0
8459310040	0	0	0	0	0	0	0	0	0	0
8459310070	0	0	1	85	0	0	1	181	0	0
8459390040	0	0	0	0	0	0	0	0	0	0
8459390050	0	0	0	0	0	0	0	0	0	0
8459400040	0	0	1	496	0	0	0	0	0	0
8459400050	0	0	0	0	0	0	1	11	0	0
8459400070	0	0	0	0	0	0	0	0	0	0
8459400080	0	0	0	0	0	0	2	39	0	0
8459510080	0	0	0	0	2	69	0	0	0	0
8459590030	0	0	0	0	0	0	1	17	0	0
8459610080	0	0	0	0	0	0	0	0	0	0
8459690050	0	0	0	0	0	0	0	0	0	0
8459690070	0	0	1	1720	0	0	0	0	0	0
8459690090	0	0	1	17	0	0	20	150	0	0
8459700020	0	0	0	0	0	0	0	0	0	0
8459700080	1	111	0	0	0	0	1	3	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
8460190010	1	96	0	0	0	0	1	7	0	0
8460190050	1	33	0	0	0	0	0	0	0	0
8460210080	1	24	0	0	0	0	0	0	0	0
8460290010	0	0	0	0	0	0	0	0	0	0
8460290030	0	0	0	0	0	0	1	25	0	0
8460290050	0	0	0	0	0	0	7	176	0	0
8460310080	6	223	0	0	0	0	0	0	0	0
8460390050	0	0	0	0	2	13	2	63	0	0
8460400060	0	0	0	0	0	0	0	0	0	0
8460400080	0	0	1	14	1	14	2	21	0	0
8460900060	0	0	0	0	0	0	0	0	0	0
8460900080	0	0	5	493	0	0	2	7	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
8461100080	1	209	0	0	0	0	18	345	0	0
8461200010	0	0	0	0	0	0	0	0	0	0
8461200090	0	0	1	9	0	0	1	16	0	0
8461300060	0	0	0	0	0	0	0	0	0	0
8461300080	1	11	0	0	0	0	0	0	0	0
8461401050	0	0	0	0	0	0	0	0	0	0
8461401070	0	0	1	19	0	0	1	25	0	0
8461401090	0	0	0	0	0	0	1	59	1	53
8461405060	3	157	0	0	0	0	0	0	0	0
8461500050	0	0	0	0	0	0	0	0	0	0
8461500090	4	20	8	130	0	0	14	167	3	43
9000000001	0	0	0	0	0	0	8	106	0	0
9800000001	41	157	10	146	0	0	151	1207	0	0
9900000001	279	177	167	16	0	0	152	111	0	0
Month Tot	342	1252	202	3674	7	276	421	4713	6	104
Y-T-D Tot	1774	11819	470	18384	54	399	3291	23334	312	2988
NC YTD Tot*	29	2691	31	6066	2	69	60	5442	17	1877

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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
8457100025	0	0	0	0	0	0	0	0	0	0
8457100035	0	0	0	0	0	0	0	0	0	0
8457100045	0	0	0	0	0	0	0	0	0	0
8457200010	0	0	0	0	0	0	0	0	0	0
8457200090	0	0	0	0	0	0	0	0	0	0
8457300010	0	0	0	0	0	0	0	0	0	0
8457300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
8458110030	0	0	0	0	0	0	0	0	0	0
8458110050	0	0	0	0	0	0	1	87	0	0
8458110090	0	0	0	0	0	0	0	0	0	0
8458190030	0	0	0	0	0	0	0	0	0	0
8458190050	0	0	0	0	0	0	0	0	1	67
8458190070	0	0	0	0	0	0	0	0	0	0
8458190090	0	0	0	0	0	0	0	0	0	0
8458911060	0	0	0	0	0	0	0	0	0	0
8458911080	0	0	0	0	0	0	0	0	0	0
8458915050	0	0	0	0	0	0	0	0	0	0
8458915070	0	0	0	0	0	0	0	0	0	0
8458991050	0	0	0	0	0	0	0	0	0	0
8458995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
8459210080	0	0	0	0	0	0	0	0	0	0
8459290040	0	0	0	0	0	0	0	0	0	0
8459290050	0	0	0	0	0	0	0	0	0	0
8459290070	0	0	0	0	0	0	0	0	0	0
8459290090	0	0	0	0	0	0	0	0	0	0
8459310010	0	0	0	0	0	0	0	0	0	0
8459310040	0	0	0	0	0	0	0	0	0	0
8459310070	0	0	0	0	0	0	0	0	0	0
8459390040	0	0	0	0	0	0	0	0	0	0
8459390050	0	0	0	0	0	0	0	0	0	0
8459400040	0	0	0	0	0	0	0	0	0	0
8459400050	0	0	0	0	0	0	0	0	0	0
8459400070	0	0	0	0	0	0	0	0	0	0
8459400080	0	0	0	0	0	0	0	0	0	0
8459510080	0	0	0	0	0	0	0	0	0	0
8459590030	0	0	0	0	0	0	0	0	0	0
8459610080	0	0	0	0	0	0	0	0	0	0
8459690050	0	0	0	0	0	0	0	0	0	0
8459690070	0	0	0	0	0	0	0	0	0	0
8459690090	0	0	0	0	0	0	0	0	0	0
8459700020	0	0	0	0	0	0	1	9	0	0
8459700080	0	0	0	0	0	0	0	0	0	0
8460110080	5	176	0	0	0	0	0	0	0	0
8460190010	0	0	0	0	0	0	0	0	0	0
8460190050	0	0	0	0	0	0	1	6	0	0
8460210080	11	384	0	0	0	0	0	0	0	0
8460290010	0	0	0	0	0	0	0	0	0	0
8460290030	1	15	0	0	0	0	0	0	0	0
8460290050	0	0	0	0	0	0	0	0	0	0
8460310080	0	0	0	0	0	0	0	0	0	0
8460390050	0	0	0	0	2	71	0	0	0	0
8460400060	0	0	0	0	16	107	0	0	0	0
8460400080	2	17	0	0	0	0	0	0	0	0
8460900060	0	0	0	0	0	0	0	0	0	0
8460900080	0	0	1	6	6	55	1	10	1	8
8461100060	0	0	0	0	0	0	0	0	0	0
8461100080	0	0	0	0	0	0	0	0	0	0
8461200010	0	0	0	0	0	0	0	0	0	0
8461200090	0	0	0	0	0	0	0	0	0	0
8461300060	0	0	0	0	0	0	0	0	0	0
8461300080	0	0	0	0	0	0	0	0	0	0
8461401050	0	0	0	0	0	0	0	0	0	0
8461401070	0	0	0	0	0	0	0	0	0	0
8461401090	0	0	0	0	0	0	0	0	0	0
8461405060	0	0	0	0	1	10	0	0	0	0
8461500050	0	0	0	0	0	0	0	0	0	0
8461500090	0	0	0	0	0	0	0	0	1	24
9000000001	0	0	0	0	1	3	0	0	0	0
9800000001	11	317	0	0	16	41	121	555	0	0
9900000001	11	13	0	0	0	0	26	15	0	0
Month Tot	41	922	1	6	42	286	151	683	3	100
Y-T-D Tot	550	3211	190	1306	127	1956	391	3862	61	689
NC YTD Tot*	19	969	1	677	11	1362	9	816	5	178

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	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	39
8457100015	0	0	0	0	0	0	0	0	0	0
8457100025	0	0	0	0	0	0	0	0	0	0
8457100035	1	135	0	0	0	0	0	0	0	0
8457100045	1	54	0	0	0	0	0	0	1	45
8457200010	0	0	0	0	0	0	0	0	0	0
8457200090	0	0	0	0	0	0	0	0	0	0
8457300010	0	0	0	0	0	0	0	0	0	0
8457300090	0	0	0	0	0	0	0	0	2	333
8458110010	0	0	0	0	0	0	0	0	0	0
8458110030	0	0	0	0	0	0	0	0	0	0
8458110050	0	0	0	0	0	0	0	0	0	0
8458110090	0	0	0	0	0	0	0	0	0	0
8458190030	1	3	0	0	0	0	1	6	1	16
8458190050	0	0	0	0	0	0	0	0	0	0
8458190070	0	0	0	0	0	0	1	61	0	0
8458190090	0	0	0	0	0	0	0	0	2	29
8458911060	0	0	0	0	0	0	0	0	0	0
8458911080	0	0	0	0	0	0	0	0	0	0
8458915050	0	0	0	0	0	0	0	0	0	0
8458915070	0	0	0	0	0	0	0	0	0	0
8458991050	0	0	0	0	0	0	0	0	0	0
8458995090	0	0	0	0	0	0	2	113	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
8459210080	0	0	0	0	0	0	1	75	1	442
8459290040	0	0	0	0	0	0	0	0	2	32
8459290050	0	0	0	0	3	12	0	0	1	34
8459290070	3	203	0	0	0	0	0	0	1	5
8459290090	0	0	0	0	0	0	0	0	4	259
8459310010	0	0	0	0	0	0	0	0	0	0
8459310040	0	0	0	0	0	0	0	0	0	0
8459310070	0	0	0	0	0	0	0	0	0	0
8459390040	0	0	0	0	0	0	0	0	0	0
8459390050	0	0	0	0	0	0	0	0	1	11
8459400040	0	0	0	0	0	0	0	0	0	0
8459400050	0	0	0	0	0	0	0	0	0	0
8459400070	0	0	0	0	0	0	0	0	0	0
8459400080	0	0	0	0	0	0	1	50	0	0
8459510080	0	0	0	0	0	0	0	0	1	36
8459590030	2	43	0	0	0	0	0	0	0	0
8459610080	0	0	0	0	0	0	0	0	0	0
8459690050	0	0	0	0	0	0	1	59	0	0
8459690070	0	0	0	0	0	0	0	0	0	0
8459690090	0	0	0	0	0	0	0	0	2	86
8459700020	0	0	0	0	0	0	0	0	0	0
8459700080	0	0	0	0	0	0	5	15	8	31
8460110080	0	0	0	0	0	0	0	0	2	55
8460190010	0	0	0	0	0	0	0	0	0	0
8460190050	0	0	0	0	0	0	1	208	1	12
8460210080	1	29	0	0	0	0	0	0	0	0
8460290010	0	0	0	0	0	0	0	0	1	655
8460290030	1	52	0	0	0	0	3	99	0	0
8460290050	3	229	0	0	0	0	1	50	2	17
8460310080	0	0	0	0	0	0	0	0	1	37
8460390050	1	20	0	0	0	0	6	40	2	15
8460400060	0	0	0	0	0	0	0	0	0	0
8460400080	0	0	0	0	0	0	6	55	12	109
8460900060	0	0	0	0	0	0	0	0	0	0
8460900080	0	0	0	0	0	0	5	243	1	5
8461100060	0	0	0	0	0	0	0	0	0	0
8461100080	0	0	0	0	2	99	1	3	0	0
8461200010	0	0	0	0	0	0	0	0	0	0
8461200090	1	18	0	0	0	0	0	0	0	0
8461300060	0	0	0	0	0	0	0	0	0	0
8461300080	0	0	0	0	0	0	0	0	0	0
8461401050	0	0	0	0	0	0	0	0	0	0
8461401070	0	0	0	0	0	0	0	0	0	0
8461401090	0	0	0	0	0	0	0	0	0	0
8461405060	0	0	0	0	0	0	0	0	1	178
8461500050	0	0	0	0	0	0	0	0	0	0
8461500090	18	131	1	20	0	0	1	6	1	15
9000000001	0	0	0	0	0	0	1	37	1	355
9800000001	2	39	0	0	2	344	1	2	20	234
9900000001	65	54	0	0	0	0	133	36	208	207
Month Tot	100	1009	1	20	7	455	171	1170	281	3291
Y-T-D Tot	1008	14133	3	691	210	4394	817	8169	1504	15396
NC YTD Tot*	56	6910	0	0	3	202	14	2519	55	4806

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 89

RELEASED: August 18, 1989

Metal Forming Machine Tools

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	2598	18832	428	5401
8462100030	Headers and upsetters, including cold headers	48	5205	7	1684
8462100050	Forging or die stamping machines, and hammers, n.e.c.	702	39159	148	7616
8462210080	Bending, folding, straight. or flat. mach., incl presses, NC	600	13943	419	4217
8462290030	Press brakes, non-NC	182	4780	26	776
8462290040	Bending rolls, non-NC	45	1326	1	4
8462290050	Bending, folding, straight., or flat., n.e.c., non-NC	465	20721	89	4632
8462310080	Shearing machines, NC	20	2312	3	886
8462390050	Shearing machines, non-NC	276	6533	48	655
8462410080	Punching or notching mach., incl. comb. punch & shear, NC	132	14260	13	1914
8462490050	Punching or notching mach., incl. comb. punch & sh., non-NC	230	5652	39	1355
8462910060	Hydraulic presses, NC	24	2345	8	984
8462910090	Hydraulic presses, non-NC	151	10532	25	896
8462990030	Presses, n.e.c., NC	30	4712	3	2043
8462990040	Presses, mechanical, non-NC	44	22962	19	2527
8462990060	Presses, n.e.c., non-NC	605	35301	106	5632
8463100080	Draw benches for bars, tubes, profiles, wire or the like	19	1577	1	5
8463200080	Thread rolling machines	19	921	1	3
8463300080	Machines for working wire	171	9237	69	2850
8463900080	Metal forming machine tools, n.e.c.	366	14404	46	4812
9800000002	Used or rebuilt machine tools	342	6227	63	908
9900000002	Machine tools valued at less than $2,500	8382	3028	836	487
	Forming Total			2398	50288
	Y-T-D Forming Total	15451	243970		
	NC Y-T-D Forming Total	806	37572		
	Cutting and Forming Totals:				
	Monthly Total			59923	215811
	Y-T-D Total	250380	1005932		
	NC Y-T-D Total*	6003	527917		

Other Manufacturing Technology

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	285315	0	58101
2710003070	Quenching or cutting oils	0	36	0	12
8428900010	Industrial robots for lifting, handling, loading or unload	748	20582	215	3834
8456101010	Laser, light or photon beam for working metal, NC	38	6041	8	1219
8456101020	Laser, light or photon beam for working metal, non-NC	10	793	6	177
8456105000	Laser, light or photon beam for other materials	1039	2175	106	684
8456201010	Ultrasonic processes for working metal, NC	4	421	1	260
8456201050	Ultrasonic processes for working metal, non-NC	10	22	0	0
8456205000	Ultrasonic processes for working other materials	119	384	6	22
8477106010	Injection molding mach., for rubber or oth. thermosetting	327	37431	67	5380
8477106050	Injection molding mach., for thermoplastics	1050	113875	207	26243
8477200010	Extruders for rubber or other thermosetting materials	78	12512	21	4753
8477200050	Extruders for processing thermoplastics	322	20804	64	3514
8477300000	Blow molding machines	110	17876	10	2138
8477400000	Vacuum-molding and other thermoforming machines	142	9869	62	1475
8479899040	Industrial robots, n.e.c.	9878	56846	1079	9911
8479900040	Industrial robot parts	0	0	0	0
8537100030	Numerical controls for controlling machine tools	4785	18584	573	3729
9024100000	Machines and appliances for testing metals	0	4798	0	1706
9031100000	Machines for balancing mechanical parts	0	2721	0	363
9031300000	Profile projectors	0	2584	0	535
9032810020	Industrial process control instr., hydraulic	73405	1300	11910	191
9032810060	Industrial process control instr., pneumatic	36971	1179	17013	278

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 89

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	350	263	0	0	4	131
8462100030	0	0	0	0	0	0	0	0	2	162
8462100050	0	0	0	0	35	1085	0	0	0	0
8462210080	25	705	0	0	0	0	0	0	0	0
8462290030	5	108	0	0	11	400	0	0	0	0
8462290040	0	0	0	0	0	0	0	0	0	0
8462290050	0	0	0	0	29	903	0	0	3	52
8462310080	1	33	0	0	0	0	0	0	0	0
8462390050	5	15	0	0	4	235	2	70	0	0
8462410080	0	0	0	0	0	0	0	0	1	44
8462490050	0	0	0	0	1	118	0	0	0	0
8462910060	0	0	0	0	3	217	0	0	0	0
8462910090	0	0	0	0	0	0	0	0	1	142
8462990030	0	0	0	0	0	0	0	0	0	0
8462990040	0	0	0	0	0	0	0	0	0	0
8462990060	1	524	0	0	34	2123	0	0	5	377
8463100080	0	0	0	0	0	0	0	0	0	0
8463200080	0	0	0	0	0	0	0	0	0	0
8463300080	50	1097	0	0	0	0	0	0	9	1076
8463900080	0	0	0	0	2	13	1	13	13	639
9800000002	4	124	0	0	18	83	0	0	4	155
9900000002	0	0	0	0	4	5	0	0	62	39
Month Tot	91	2607	0	0	491	5445	3	83	104	2816
Y-T-D Tot	259	8244	7	11	3236	24756	65	844	534	8583
NC YTD Tot	28	780	0	0	10	645	6	163	4	612
C&F Month	95	2611	37	327	717	7363	146	1326	2965	8274
C&F Y-T-D	316	11951	455	2606	5190	33186	856	13491	13136	29449
C&F NC YTD	34	978	4	239	21	1133	33	1501	102	7585

Other Manufacturing Technology

1000000000	0	418	0	29	0	11322	0	740	0	1333
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	8	95	0	0	0	0
8456101010	0	0	0	0	0	0	0	0	0	0
8456101020	0	0	0	0	0	0	0	0	0	0
8456105000	0	0	0	0	0	0	0	0	4	218
8456201010	0	0	0	0	0	0	0	0	0	0
8456201050	0	0	0	0	0	0	0	0	0	0
8456205000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	3	436	5	556	6	648
8477106050	0	0	0	0	25	3202	1	126	27	3113
8477200010	0	0	0	0	2	38	4	1156	2	135
8477200050	0	0	0	0	16	413	0	0	1	110
8477300000	0	0	0	0	0	0	0	0	0	0
8477400000	0	0	0	0	2	130	0	0	0	0
8479899040	0	0	0	0	1	34	0	0	0	0
8479900040	0	0	0	0	0	0	0	0	0	0
8537100030	0	0	0	0	0	0	0	0	0	0
9024100000	0	0	0	0	0	3	0	0	0	0
9031100000	0	0	0	0	0	29	0	23	0	3
9031300000	0	0	0	0	0	0	0	0	0	4
9032810020	0	0	0	0	0	0	1	8	0	0
9032810060	0	0	0	0	0	0	2	25	180	20

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 89

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	12	3651	1	87	0	0	0	0	0	0
8462100030	3	343	0	0	0	0	0	0	0	0
8462100050	54	5113	0	0	1	3	0	0	0	0
8462210080	386	3300	0	0	0	0	0	0	0	0
8462290030	1	25	0	0	0	0	0	0	0	0
8462290040	0	0	0	0	0	0	0	0	1	4
8462290050	28	2807	0	0	0	0	0	0	6	53
8462310080	1	305	0	0	0	0	0	0	0	0
8462390050	2	41	0	0	6	83	0	0	2	15
8462410080	4	463	0	0	0	0	0	0	0	0
8462490050	7	714	1	5	0	0	10	129	6	92
8462910060	3	454	0	0	0	0	0	0	2	313
8462910090	11	229	0	0	0	0	0	0	1	194
8462990030	1	1947	0	0	0	0	0	0	0	0
8462990040	18	2522	0	0	0	0	0	0	0	0
8462990060	8	1837	0	0	0	0	5	104	25	67
8463100080	0	0	0	0	0	0	0	0	0	0
8463200080	0	0	0	0	0	0	0	0	0	0
8463300080	5	555	0	0	0	0	0	0	1	63
8463900080	9	3611	0	0	0	0	0	0	2	73
9800000002	5	437	0	0	0	0	0	0	3	16
9900000002	184	110	52	26	0	0	0	0	8	13
Month Tot	742	28463	54	119	7	86	15	233	57	903
Y-T-D Tot	2418	142348	58	157	42	603	171	735	185	4040
NC YTD Tot	562	23098	0	0	0	0	0	0	4	398
C&F Month	5980	129002	174	1771	59	1465	148	2218	214	1255
C&F Y-T-D	21387	593870	953	7894	349	6544	1045	9214	1410	7559
C&F NC YTD	3929	402300	68	3629	55	2848	234	2749	5	421

Other Manufacturing Technology

1000000000	0	17183	0	348	0	1010	0	278	0	1240
2710003070	0	0	0	0	0	0	0	1	0	0
8428900010	186	2632	0	0	0	0	0	0	16	580
8456101010	5	1011	0	0	0	0	0	0	0	0
8456101020	0	0	0	0	0	0	0	0	0	0
8456105000	91	212	0	0	0	0	0	0	0	0
8456201010	1	260	0	0	0	0	0	0	0	0
8456201050	0	0	0	0	0	0	0	0	0	0
8456205000	1	5	0	0	0	0	0	0	0	0
8477106010	20	2317	0	0	0	0	0	0	0	0
8477106050	94	15964	2	44	0	0	1	5	0	0
8477200010	3	1408	0	0	0	0	0	0	0	0
8477200050	1	57	0	0	0	0	0	0	0	0
8477300000	3	812	0	0	0	0	0	0	0	0
8477400000	5	23	0	0	0	0	0	0	3	24
8479899040	259	8105	0	0	0	0	0	0	11	516
8479900040	0	0	0	0	0	0	0	0	0	0
8537100030	511	3692	0	0	0	0	0	0	0	0
9024100000	0	1472	0	0	0	0	0	0	0	0
9031100000	0	126	0	0	0	0	0	0	0	0
9031300000	0	219	0	27	0	0	0	0	0	0
9032810020	12	3	314	75	0	0	0	0	0	0
9032810060	10	5	15000	64	0	0	0	0	582	141

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 89

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	615	0	0	55	4	3	651	0	0
8462100030	0	0	0	0	0	0	2	1179	0	0
8462100050	0	0	1	5	3	103	28	1087	26	220
8462210080	0	0	0	0	1	24	6	136	1	53
8462290030	0	0	0	0	1	61	1	4	7	177
8462290040	0	0	0	0	0	0	0	0	0	0
8462290050	0	0	2	314	2	95	5	332	14	75
8462310080	0	0	0	0	0	0	1	548	0	0
8462390050	0	0	0	0	20	106	1	10	6	80
8462410080	2	519	0	0	0	0	4	544	2	344
8462490050	0	0	10	264	2	15	2	18	0	0
8462910060	0	0	0	0	0	0	0	0	0	0
8462910090	2	7	1	175	0	0	5	62	4	89
8462990030	0	0	2	96	0	0	0	0	0	0
8462990040	0	0	0	0	0	0	1	6	0	0
8462990060	1	31	0	0	22	324	4	239	1	5
8463100080	0	0	0	0	0	0	1	5	0	0
8463200080	0	0	1	3	0	0	0	0	0	0
8463300080	0	0	1	15	0	0	3	45	0	0
8463900080	6	48	3	24	2	10	8	382	0	0
9800000002	10	1	0	0	11	83	0	0	8	8
9900000002	126	12	264	176	73	34	15	7	48	62
Month Tot	150	1233	285	1072	192	859	90	5257	117	1113
Y-T-D Tot	619	7770	4473	4165	440	6840	816	27586	2128	7289
NC YTD Tot	14	1869	23	565	2	66	103	6832	50	2543
C&F Month	318	6784	38691	12217	1128	6325	1164	28414	8087	6460
C&F Y-T-D	1162	37699	158692	51580	4101	38191	5913	129494	35415	33206
C&F NC YTD	96	13800	422	10318	346	15633	456	57456	198	7327

Other Manufacturing Technology

1000000000	0	3294	0	2061	0	3251	0	12786	0	2807
2710003070	0	0	0	0	0	0	0	11	0	0
8428900010	2	1	0	0	2	159	1	368	0	0
8456101010	2	112	0	0	0	0	1	97	0	0
8456101020	0	0	0	0	0	0	6	177	0	0
8456105000	0	0	0	0	5	13	1	235	5	6
8456201010	0	0	0	0	0	0	0	0	0	0
8456201050	0	0	0	0	0	0	0	0	0	0
8456205000	5	17	0	0	0	0	0	0	0	0
8477106010	1	41	14	746	0	0	10	379	8	256
8477106050	3	734	3	117	1	79	33	1194	17	1663
8477200010	1	51	3	134	4	1755	2	76	0	0
8477200050	17	951	2	15	8	63	15	1399	4	506
8477300000	0	0	2	35	0	0	5	1290	0	0
8477400000	0	0	0	0	5	573	47	726	0	0
8479899040	4	365	0	0	18	139	784	745	2	7
8479900040	0	0	0	0	0	0	0	0	0	0
8537100030	1	6	0	0	0	0	61	31	0	0
9024100000	0	23	0	0	0	101	0	15	0	92
9031100000	0	0	0	0	0	18	0	159	0	5
9031300000	0	22	0	0	0	149	0	114	0	0
9032810020	50	2	0	0	3259	15	4	2	8270	86
9032810060	0	0	1000	1	0	0	175	1	64	22

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	50	708	12	18	62	727
Bulgaria	0	0	0	0	0	0
Czechoslovakia	6	103	0	0	6	103
Denmark	21	168	1	1	22	169
East Germany	5	143	0	0	5	143
Finland	513	1211	11	366	524	1576
Hungary	0	0	0	0	0	0
Ireland	1	3	5	18	6	20
Luxembourg	1	12	4	171	5	183
Netherlands	18	677	15	175	33	853
Norway	0	0	3	60	3	60
Poland	4	38	0	0	4	38
Portugal	0	0	10	137	10	137
Romania	0	0	0	0	0	0
USSR	0	0	0	0	0	0
Yugoslavia	64	339	0	0	64	339
Oth Europe	3	31	21	36	24	67
TOTAL	6162	46648	784	14973	6946	61621
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	275	84	16	26	291	111
Oth N & C Am.	0	0	0	0	0	0
TOTAL	501	2002	507	5472	1008	7473
SOUTH AMERICA						
Argentina	0	0	2	65	2	65
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	37	327	2	65	39	392
OCEANIA						
Australia	48	231	0	0	48	231
New Zealand	10	10	0	0	10	10
Oth Oceania	0	0	0	0	0	0
TOTAL	58	242	0	0	58	242

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	6684	986	2	2	6686	988
Hong Kong	244	261	0	0	244	261
India	19	102	0	0	19	102
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	3	213	3	36	6	249
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	12	2	12	2
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	50766	116278	1105	29779	51871	146057
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	1	27	0	0	1	27
TOTAL	1	27	0	0	1	27

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include codes 8456300000 and 9000000001.

U.S. IMPORTS
Metal Cutting Machine Tools - May 89

RELEASED: August 18, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	316	26163	45	3323
8456301030	Traveling wire electro-discharge machines, non-NC	89	6698	31	2151
8456301050	Electro-discharge machines, n.e.c., NC	99	4096	38	918
8456301070	Electro-discharge machines, n.e.c., non-NC	130	4716	20	709
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	866	72909	188	15594
8457100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	87	8678	29	2238
8457100035	Horiz. mach. ctrs., ATC	287	54209	65	11519
8457100045	Mach. ctrs., n.e.c.	154	14501	11	1913
8457200010	Unit construction mach. (single station transfer), NC	8	1027	0	0
8457200090	Unit construction mach. (single station transfer), non-NC	6	385	3	124
8457300010	Multi-station transfer machines, NC	9	8850	5	3325
8457300090	Multi-station transfer machines, non-NC	57	12205	11	968
8458110010	Horiz. lathes, multiple spindle, NC	102	17798	24	4278
8458110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1326	103972	282	24717
8458110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	248	35125	61	7897
8458110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	41	4290	3	499
8458190030	Horiz. engine or toolroom lathes, non-NC	1259	11776	215	1981
8458190050	Automatic bar and/or chucking mach., single spindle, non-NC	121	3844	54	985
8458190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	34	1880	5	293
8458190090	Horiz. lathes, n.e.c., non-NC	447	6280	46	835
8458911060	Vertical turret lathes, multiple spindle, NC	9	1299	0	0
8458911080	Vertical turret lathes, n.e.c., NC	21	2960	8	1777
8458915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	682	0	0
8458915070	Vertical lathes, excl. VTL's, n.e.c., NC	36	3423	13	1415
8458991050	Vertical turret lathes, non-NC	14	1608	1	76
8458995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	326	9217	85	3011
8459100000	Way-type unit head machines	3	270	0	0
8459210080	Other drilling machines, NC	190	19469	55	5652
8459290040	Drilling machines, multiple spindle, non-NC	30	1701	5	541
8459290050	Drilling machines, radial, non-NC	195	1099	59	284
8459290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	127	901	19	167
8459290090	Drilling machines, n.e.c., non-NC	272	18116	60	1562
8459310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1626	1	636
8459310040	Boring-milling mach., horiz. spindle, n.e.c., NC	78	8631	1	12
8459310070	Boring-milling mach., n.e.c., NC	39	2024	5	742
8459390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	24	591	8	246
8459390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	83	3594	29	365
8459400040	Boring machines, vertical, NC	11	5445	0	0
8459400050	Boring machines, vertical, non-NC	18	138	0	0
8459400070	Boring machines, n.e.c., NC	9	2298	1	54
8459400080	Boring machines, n.e.c., non-NC	104	3672	11	859
8459510080	Milling machines, knee type, NC	503	8718	148	1522
8459590030	Milling machines, knee type, non-NC	1394	15085	280	2931
8459610080	Milling machines, excl. knee type, n.e.c., NC	112	19108	37	1256
8459690050	Milling machines, profile, dup., or die sinking, non-NC	4	410	1	24
8459690070	Milling machines, bed type, non-NC	55	1800	14	138
8459690090	Milling machines, n.e.c., non-NC	230	6422	53	655
8459700020	Threading or tapping machines, n.e.c., NC	124	7206	45	1643
8459700080	Threading or tapping machines, n.e.c., non-NC	122	4327	3	312
8460110080	Flat surface grinding mach., NC	79	4753	24	761
8460190010	Flat surface grinding mach., recip.-table type, non-NC	399	4675	70	680
8460190050	Flat surface grinding mach., n.e.c., non-NC	727	8612	142	2117
8460210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	161	34011	65	12798
8460290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	165	6964	15	3362
8460290030	Grinding mach., internal cylindrical, non-NC	64	4845	17	527
8460290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	568	9720	131	2284
8460310080	Sharpening machines (tool & cutter grinding), NC	96	1332	21	266
8460390050	Sharpening machines (tool & cutter grinding), non-NC	278	4093	50	657
8460400060	Honing or lapping machines, NC	25	5639	2	137
8460400080	Honing or lapping machines, non-NC	63	1723	17	256
8460900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	31	2771	7	1112
8460900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	551	13694	142	3662
8461100060	Planing machines, NC	0	0	0	0
8461100080	Planing machines, non-NC	1	54	0	0
8461200010	Shaping or slotting machines, NC	26	1433	0	0
8461200090	Shaping or slotting machines, non-NC	28	896	2	173
8461300060	Broaching machines, NC	9	2067	5	709
8461300080	Broaching machines, non-NC	38	3939	1	452
8461401050	Gear hobbers	34	5487	8	1134
8461401070	Gear shapers	6	864	1	166
8461401090	Gear cutting machines, n.e.c.	151	178	72	73
8461405060	Gear grinding or finishing machines	61	8545	11	3812
8461500050	Sawing or cutting-off machines, NC	45	1667	8	876
8461500090	Sawing or cutting-off machines, non-NC	788	10315	223	3017
9000000001	Metal cutting machine tools, n.e.c.	293	8752	29	1843
9800000001	Used or rebuilt machine tools	3244	18253	455	6312
9900000001	Machine tools valued at less than $2,500	217173	35440	53929	8190
	Cutting Total			57525	165523
Please see notes on last page	Y-T-D Cutting Total	234929	761962		
of the metal forming section.	NC Y-T-D Cutting Total*	5197	490345		

U.S. IMPORTS

Metal Cutting Machine Tools - May 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
8456301030	0	0	0	0	7	205	0	0	0	0
8456301050	0	0	0	0	0	0	0	0	0	0
8456301070	0	0	0	0	0	0	0	0	1	8
8457100015	0	0	0	0	0	0	1	59	0	0
8457100025	0	0	0	0	0	0	0	0	0	0
8457100035	0	0	0	0	0	0	0	0	0	0
8457100045	0	0	0	0	0	0	0	0	2	1100
8457200010	0	0	0	0	0	0	0	0	0	0
8457200090	0	0	0	0	0	0	0	0	0	0
8457300010	0	0	0	0	0	0	0	0	0	0
8457300090	0	0	0	0	8	546	0	0	1	105
8458110010	0	0	0	0	0	0	0	0	0	0
8458110030	0	0	0	0	0	0	0	0	0	0
8458110050	0	0	0	0	0	0	1	72	0	0
8458110090	0	0	0	0	0	0	0	0	0	0
8458190030	0	0	24	239	1	6	0	0	0	0
8458190050	0	0	0	0	0	0	0	0	0	0
8458190070	0	0	0	0	0	0	0	0	0	0
8458190090	0	0	10	85	0	0	0	0	0	0
8458911060	0	0	0	0	0	0	0	0	0	0
8458911080	0	0	0	0	0	0	0	0	1	45
8458915050	0	0	0	0	0	0	0	0	0	0
8458915070	0	0	0	0	0	0	0	0	1	81
8458991050	0	0	0	0	0	0	0	0	0	0
8458995090	0	0	0	0	4	80	0	0	5	89
8459100000	0	0	0	0	0	0	0	0	0	0
8459210080	0	0	0	0	0	0	0	0	7	81
8459290040	0	0	0	0	0	0	0	0	0	0
8459290050	0	0	0	0	0	0	0	0	11	51
8459290070	0	0	0	0	0	0	0	0	0	0
8459290090	0	0	0	0	0	0	6	742	1	75
8459310010	0	0	0	0	0	0	0	0	0	0
8459310040	0	0	0	0	0	0	0	0	0	0
8459310070	0	0	0	0	0	0	0	0	2	256
8459390040	0	0	0	0	0	0	0	0	0	0
8459390050	0	0	0	0	0	0	0	0	10	133
8459400040	0	0	0	0	0	0	0	0	0	0
8459400050	0	0	0	0	0	0	0	0	0	0
8459400070	0	0	0	0	0	0	0	0	0	0
8459400080	0	0	0	0	1	17	0	0	2	20
8459510080	0	0	0	0	0	0	2	6	0	0
8459590030	0	0	0	0	0	0	21	151	3	1192
8459610080	0	0	0	0	0	0	0	0	0	0
8459690050	0	0	0	0	0	0	0	0	0	0
8459690070	0	0	0	0	0	0	0	0	0	0
8459690090	0	0	0	0	2	7	0	0	9	42
8459700020	0	0	0	0	0	0	0	0	0	0
8459700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
8460190010	0	0	0	0	0	0	0	0	3	79
8460190050	0	0	0	0	0	0	1	8	3	20
8460210080	0	0	0	0	0	0	0	0	0	0
8460290010	0	0	0	0	0	0	0	0	0	0
8460290030	0	0	0	0	0	0	0	0	0	0
8460290050	0	0	0	0	29	303	2	48	5	138
8460310080	0	0	0	0	0	0	0	0	0	0
8460390050	0	0	0	0	4	54	1	21	2	20
8460400060	0	0	0	0	0	0	0	0	0	0
8460400080	0	0	0	0	0	0	0	0	0	0
8460900060	0	0	0	0	1	5	0	0	0	0
8460900080	0	0	0	0	5	80	10	27	22	1128
8461100060	0	0	0	0	0	0	0	0	0	0
8461100080	0	0	0	0	0	0	0	0	0	0
8461200010	0	0	0	0	0	0	0	0	0	0
8461200090	0	0	0	0	0	0	0	0	0	0
8461300060	0	0	0	0	0	0	0	0	0	0
8461300080	0	0	0	0	0	0	0	0	0	0
8461401050	0	0	0	0	0	0	0	0	1	12
8461401070	0	0	0	0	0	0	0	0	0	0
8461401090	0	0	0	0	0	0	0	0	0	0
8461405060	0	0	0	0	0	0	0	0	0	0
8461500050	0	0	0	0	0	0	0	0	0	0
8461500090	0	0	0	0	38	284	2	12	34	140
9000000001	0	0	0	0	5	150	0	0	0	0
9800000001	0	0	0	0	34	146	0	0	18	60
9900000001	4	4	3	4	87	36	96	99	2717	582
Month Tot	4	4	37	327	226	1918	143	1243	2861	5457
Y-T-D Tot	57	3707	448	2595	1954	8430	791	12647	12602	20965
NC YTD Tot*	6	198	4	239	11	487	27	1339	98	6973

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - May 89

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	38	2541	0	0	0	0	0	0	0	0
8456301030	12	1407	0	0	0	0	0	0	0	0
8456301050	11	594	0	0	0	0	0	0	0	0
8456301070	11	34	0	0	0	0	0	0	0	0
8457100015	136	12340	4	189	18	971	0	0	0	0
8457100025	11	1462	0	0	0	0	1	91	0	0
8457100035	30	4983	0	0	0	0	0	0	0	0
8457100045	5	665	0	0	0	0	0	0	0	0
8457200010	0	0	0	0	0	0	0	0	0	0
8457200090	0	0	0	0	0	0	0	0	0	0
8457300010	3	3071	0	0	0	0	0	0	0	0
8457300090	0	0	0	0	0	0	0	0	0	0
8458110010	18	2630	0	0	0	0	0	0	0	0
8458110030	265	23875	1	54	0	0	0	0	0	0
8458110050	55	7447	2	108	0	0	0	0	0	0
8458110090	1	224	0	0	0	0	0	0	0	0
8458190030	3	96	18	172	15	157	0	0	0	0
8458190050	2	289	0	0	0	0	0	0	0	0
8458190070	0	0	0	0	0	0	0	0	0	0
8458190090	1	31	3	110	0	0	0	0	0	0
8458911060	0	0	0	0	0	0	2	78	0	0
8458911080	7	1732	0	0	0	0	0	0	0	0
8458915050	0	0	0	0	0	0	0	0	0	0
8458915070	3	798	1	52	0	0	0	0	0	0
8458991050	0	0	0	0	0	0	1	344	0	0
8458995090	5	301	16	865	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	21	499	0	0
8459210080	48	5570	0	0	0	0	0	0	0	0
8459290040	2	167	0	0	0	0	0	0	0	0
8459290050	1	22	0	0	0	0	0	0	0	0
8459290070	1	53	0	0	0	0	0	0	11	50
8459290090	25	626	0	0	0	0	0	0	0	0
8459310010	0	0	0	0	0	0	20	92	6	18
8459310040	0	0	0	0	0	0	0	0	0	0
8459310070	0	0	0	0	0	0	0	0	0	0
8459390040	0	0	0	0	0	0	0	0	0	0
8459390050	0	0	0	0	0	0	1	179	0	0
8459400040	0	0	0	0	0	0	0	0	0	0
8459400050	0	0	0	0	0	0	0	0	0	0
8459400070	1	54	0	0	0	0	0	0	0	0
8459400080	4	411	0	0	0	0	0	0	0	0
8459510080	3	208	0	0	0	0	0	0	0	0
8459590030	3	63	0	0	0	0	48	260	0	0
8459610080	6	817	0	0	0	0	15	196	0	0
8459690050	1	24	0	0	0	0	0	0	0	0
8459690070	0	0	0	0	0	0	0	0	0	0
8459690090	10	46	0	0	0	0	1	43	0	0
8459700020	35	1539	0	0	0	0	15	84	0	0
8459700080	2	32	0	0	0	0	0	0	0	0
8460110080	2	588	0	0	0	0	0	0	0	0
8460190010	33	250	0	0	19	251	0	0	0	0
8460190050	12	1252	0	0	0	0	0	0	0	0
8460210080	20	9290	0	0	0	0	0	0	0	0
8460290010	7	2586	0	0	0	0	0	0	0	0
8460290030	1	68	0	0	0	0	0	0	0	0
8460290050	13	719	0	0	0	0	1	56	0	0
8460310080	0	0	0	0	0	0	0	0	2	17
8460390050	6	48	0	0	0	0	0	0	0	0
8460400060	0	0	0	0	0	0	3	12	0	0
8460400080	1	33	0	0	0	0	0	0	0	0
8460900060	6	1107	0	0	0	0	0	0	2	24
8460900080	7	207	8	38	0	0	1	23	2	28
8461100060	0	0	0	0	0	0	0	0	0	0
8461100080	0	0	0	0	0	0	0	0	0	0
8461200010	0	0	0	0	0	0	0	0	0	0
8461200090	1	168	0	0	0	0	0	0	0	0
8461300060	5	709	0	0	0	0	0	0	0	0
8461300080	1	452	0	0	0	0	0	0	0	0
8461401050	0	0	0	0	0	0	0	0	0	0
8461401070	1	166	0	0	0	0	0	0	0	0
8461401090	0	0	0	0	0	0	0	0	0	0
8461405060	9	2177	0	0	0	0	0	0	0	0
8461500050	8	876	0	0	0	0	0	0	0	0
8461500090	30	1750	0	0	0	0	0	0	0	0
9000000001	2	76	0	0	0	0	3	27	0	0
9800000001	66	2903	0	0	0	0	0	0	0	0
9900000001	4248	961	67	65	0	0	0	0	1	3
Month Tot	5238	100539	120	1652	52	1379	133	1985	157	352
Y-T-D Tot	18969	451522	895	7737	307	5941	874	8479	1225	3519
NC YTD Tot*	3367	379202	68	3629	55	2848	234	2749	1	23

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - May 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	7	782	0	0	0	0	0	0	0	0
8456301030	4	428	8	111	0	0	0	0	0	0
8456301050	0	0	0	0	27	324	0	0	0	0
8456301070	5	315	0	0	0	0	3	352	0	0
8457100015	0	0	13	692	10	809	6	534	0	0
8457100025	0	0	8	177	9	508	0	0	0	0
8457100035	0	0	0	0	1	184	34	6352	0	0
8457100045	0	0	1	58	1	55	2	36	0	0
8457200010	0	0	0	0	0	0	0	0	0	0
8457200090	0	0	0	0	3	124	0	0	0	0
8457300010	0	0	0	0	0	0	0	0	2	254
8457300090	2	317	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	6	1648	0	0
8458110030	0	0	16	788	0	0	0	0	0	0
8458110050	0	0	2	109	0	0	1	161	0	0
8458110090	0	0	0	0	0	0	2	275	0	0
8458190030	0	0	76	640	22	275	0	0	56	397
8458190050	2	138	46	316	0	0	4	243	0	0
8458190070	1	112	0	0	0	0	1	154	3	27
8458190090	1	57	2	8	7	149	3	228	17	89
8458911060	0	0	0	0	0	0	0	0	0	0
8458911080	0	0	0	0	0	0	0	0	0	0
8458915050	0	0	0	0	0	0	0	0	0	0
8458915070	0	0	0	0	5	18	2	123	0	0
8458991050	1	76	0	0	0	0	0	0	0	0
8458995090	1	362	2	14	2	48	2	11	27	742
8459100000	0	0	0	0	0	0	0	0	0	0
8459210080	0	0	0	0	0	0	0	0	0	0
8459290040	0	0	0	0	0	0	1	9	2	365
8459290050	0	0	26	111	0	0	1	6	9	44
8459290070	0	0	0	0	0	0	8	70	10	43
8459290090	0	0	0	0	0	0	2	10	0	0
8459310010	0	0	0	0	1	636	0	0	0	0
8459310040	0	0	0	0	0	0	0	0	1	12
8459310070	1	352	0	0	0	0	1	47	1	88
8459390040	0	0	0	0	0	0	7	67	0	0
8459390050	0	0	12	42	0	0	4	111	3	78
8459400040	0	0	0	0	0	0	0	0	0	0
8459400050	0	0	0	0	0	0	0	0	0	0
8459400070	0	0	0	0	0	0	0	0	0	0
8459400080	0	0	0	0	1	42	0	0	3	368
8459510080	0	0	50	442	19	530	0	0	26	76
8459590030	0	0	169	999	60	229	0	0	9	101
8459610080	0	0	29	358	2	82	0	0	0	0
8459690050	0	0	0	0	0	0	0	0	0	0
8459690070	0	0	13	95	0	0	0	0	0	0
8459690090	2	168	9	36	1	17	2	41	3	213
8459700020	0	0	10	104	0	0	0	0	0	0
8459700080	0	0	0	0	0	0	1	280	0	0
8460110080	0	0	17	105	0	0	1	24	4	44
8460190010	0	0	14	33	0	0	1	67	0	0
8460190050	1	36	106	657	16	111	2	30	1	3
8460210080	13	505	0	0	4	169	28	2834	0	0
8460290010	6	413	0	0	0	0	2	363	0	0
8460290030	0	0	0	0	0	0	1	251	14	151
8460290050	3	395	5	38	12	145	59	480	1	1
8460310080	0	0	17	150	0	0	4	116	0	0
8460390050	5	61	3	24	11	83	11	161	4	173
8460400060	0	0	0	0	0	0	2	137	0	0
8460400080	1	23	0	0	7	67	6	109	0	0
8460900060	0	0	0	0	0	0	0	0	0	0
8460900080	36	348	13	49	2	13	29	484	7	1238
8461100060	0	0	0	0	0	0	0	0	0	0
8461100080	0	0	0	0	0	0	0	0	0	0
8461200010	0	0	0	0	0	0	0	0	0	0
8461200090	0	0	1	5	0	0	0	0	0	0
8461300060	0	0	0	0	0	0	0	0	0	0
8461300080	0	0	0	0	0	0	0	0	0	0
8461401050	0	0	0	0	0	0	6	1094	1	27
8461401070	0	0	0	0	0	0	0	0	0	0
8461401090	60	8	4	4	6	3	2	58	0	0
8461405060	0	0	0	0	0	0	2	1634	0	0
8461500050	0	0	0	0	0	0	0	0	0	0
8461500090	1	11	37	209	8	28	49	492	21	64
9000000001	2	222	5	38	1	80	5	1242	9	36
9800000001	4	407	0	0	287	532	29	2192	16	68
9900000001	9	16	37692	4731	411	206	742	630	7720	644
Month Tot	168	5550	38406	11145	936	5466	1074	23157	7970	5347
Y-T-D Tot	543	29930	154219	47415	3661	31351	5097	101908	33287	25917
NC YTD Tot*	82	11932	399	9752	344	15567	353	50623	148	4784

Please see notes on last page of the metal forming section.